

August 29, 2019

Arcelor Mittal USA, Inc.  
250 W US Highway 12  
Burns Harbor, IN 46304-9745

Work Order No.: 19H1859

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 14 sample(s) on 8/29/2019 10:25:00AM for the analyses presented in the following report as Work Order 19H1859.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Ron Misiunas, Division Manager, at [ron.misiunas@microbac.com](mailto:ron.misiunas@microbac.com).

Sincerely,  
Microbac Laboratories, Inc.



Carey Gadzala  
Project Manager

**WORK ORDER SAMPLE SUMMARY**

Date: Thursday, August 29, 2019

**Client:** Arcelor Mittal USA, Inc.  
**Project:** Daily  
**Lab Order:** 19H1859

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H1859-01	011-Composite	011	08/28/2019 05:50	8/29/2019 10:25:00AM
19H1859-02	011-Grab	011	08/28/2019 05:50	8/29/2019 10:25:00AM
19H1859-03	001-Composite	001	08/28/2019 06:11	8/29/2019 10:25:00AM
19H1859-04	001-Grab	001	08/28/2019 06:11	8/29/2019 10:25:00AM
19H1859-05	Mixed Liquor-Grab	Mixed Liquor	08/29/2019 06:29	8/29/2019 10:25:00AM
19H1859-06	J-Box-Grab	J-Box	08/29/2019 06:25	8/29/2019 10:25:00AM
19H1859-07	RSB FT Overflow-Grab	RSB FT Overflow	08/29/2019 07:17	8/29/2019 10:25:00AM
19H1859-08	999-Grab	999	08/29/2019 07:05	8/29/2019 10:25:00AM
19H1859-09	002-Grab	002	08/28/2019 07:26	8/29/2019 10:25:00AM
19H1859-10	CM1-Grab	CM1	08/29/2019 00:00	8/29/2019 10:25:00AM
19H1859-11	CM2-Grab	CM2	08/29/2019 00:00	8/29/2019 10:25:00AM
19H1859-12	CM6 Grab	CM6	08/29/2019 00:00	8/29/2019 10:25:00AM
19H1859-13	HM2-Grab	HM2	08/29/2019 00:00	8/29/2019 10:25:00AM
19H1859-14	HM3-Grab	HM3	08/29/2019 00:00	8/29/2019 10:25:00AM

**Field Results**

Date: *Thursday, August 29, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order:</b>	19H1859
<b>Client Project:</b>	Daily		
<b>Client Sample ID:</b>	011-Grab	<b>Work Order/ID:</b>	19H1859-02
<b>Sample Description:</b>	011	<b>Sampled:</b>	08/28/2019 05:50
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/29/2019 10:25

Analyses	Result	Units
FLD_CL_TITR	0.00	mg/L
pH	7.7	pH Units

<b>Client Sample ID:</b>	001-Grab	<b>Work Order/ID:</b>	19H1859-04
<b>Sample Description:</b>	001	<b>Sampled:</b>	08/28/2019 06:11
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/29/2019 10:25

Analyses	Result	Units
FLD_CL_TITR	0.00	mg/L
pH	7.7	pH Units

<b>Client Sample ID:</b>	J-Box-Grab	<b>Work Order/ID:</b>	19H1859-06
<b>Sample Description:</b>	J-Box	<b>Sampled:</b>	08/29/2019 06:25
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/29/2019 10:25

Analyses	Result	Units
pH	8.6	pH Units

<b>Client Sample ID:</b>	RSB FT Overflow-Grab	<b>Work Order/ID:</b>	19H1859-07
<b>Sample Description:</b>	RSB FT Overflow	<b>Sampled:</b>	08/29/2019 07:17
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/29/2019 10:25

Analyses	Result	Units
pH	9.0	pH Units

<b>Client Sample ID:</b>	999-Grab	<b>Work Order/ID:</b>	19H1859-08
<b>Sample Description:</b>	999	<b>Sampled:</b>	08/29/2019 07:05
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/29/2019 10:25

Analyses	Result	Units
pH	8.1	pH Units

<b>Client Sample ID:</b>	002-Grab	<b>Work Order/ID:</b>	19H1859-09
<b>Sample Description:</b>	002	<b>Sampled:</b>	08/28/2019 07:26
<b>Matrix:</b>	Aqueous	<b>Received:</b>	08/29/2019 10:25

Analyses	Result	Units
pH	8.3	pH Units

## Analytical Results

Date: *Thursday, August 29, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1859-01
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/28/2019 5:50
<b>Client Sample ID:</b>	011-Composite	<b>Received:</b>	08/29/2019 10:25
<b>Sample Description:</b>	011		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed		
			Method: <b>SM 4500-CN C/E-1999</b>				Analyst: <b>ABG</b>				
										Prep Date/Time: <b>08/29/2019 12:12</b>	
<b>Total Cyanide</b>											
Cyanide, Total	ejj	A	<b>0.0028</b>	0.0020	0.0050		mg/L	1	08/29/2019 14:26		
			Method: <b>SW-846 9014</b>				Analyst: <b>ABG</b>				
										Prep Date/Time: <b>08/29/2019 12:04</b>	
<b>Free Cyanide</b>											
Free Cyanide		A	<b>ND</b>		0.0062		mg/L	1	08/29/2019 14:06		
			Method: <b>EPA 350.1 Rev 2.0</b>				Analyst: <b>ABG</b>				
										Prep Date/Time: <b>08/29/2019 14:15</b>	
<b>Nitrogen, Ammonia as N</b>											
Nitrogen, Ammonia (As N)	ei	A	<b>0.37</b>	0.054	0.10		mg/L	1	08/29/2019 15:37		
			Method: <b>EPA 420.4 Rev 1.0</b>				Analyst: <b>ABG</b>				
										Prep Date/Time: <b>08/29/2019 12:55</b>	
<b>Total Phenolics</b>											
Phenolics, Total Recoverable	ejj	A	<b>0.0096</b>	0.0060	0.010		mg/L	1	08/29/2019 16:32		
			Method: <b>SM 2540 D-1997</b>				Analyst: <b>KMT</b>				
										Prep Date/Time: <b>08/29/2019 11:13</b>	
<b>Total Suspended Solids</b>											
Total Suspended Solids	ejj	A	<b>2.2</b>	1.0	1.0		mg/L	1	08/29/2019 12:45		

## Analytical Results

Date: *Thursday, August 29, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1859-02
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/28/2019 5:50
<b>Client Sample ID:</b>	011-Grab	<b>Received:</b>	08/29/2019 10:25
<b>Sample Description:</b>	011		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method: EPA 1664B			Analyst: KMT		
<b>Oil &amp; Grease (HEM) by SPE</b>									
Prep Date/Time: 08/29/2019 07:40									
Oil & Grease (HEM)	ejj	A	ND	1.4	5.0	U	mg/L	1	08/29/2019 14:30

## Analytical Results

Date: *Thursday, August 29, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1859-03
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/28/2019 6:11
<b>Client Sample ID:</b>	001-Composite	<b>Received:</b>	08/29/2019 10:25
<b>Sample Description:</b>	001		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed		
			Method: <b>SM 4500-CN C/E-1999</b>				Analyst: <b>ABG</b>				
										Prep Date/Time: <b>08/29/2019 12:12</b>	
<b>Total Cyanide</b>											
Cyanide, Total	ejj	A	<b>0.0022</b>	0.0020	0.0050		mg/L	1	08/29/2019 14:28		
			Method: <b>SW-846 9014</b>				Analyst: <b>ABG</b>				
										Prep Date/Time: <b>08/29/2019 12:04</b>	
<b>Free Cyanide</b>											
Free Cyanide		A	<b>ND</b>		0.0062		mg/L	1	08/29/2019 14:28		
			Method: <b>EPA 350.1 Rev 2.0</b>				Analyst: <b>ABG</b>				
										Prep Date/Time: <b>08/29/2019 14:15</b>	
<b>Nitrogen, Ammonia as N</b>											
Nitrogen, Ammonia (As N)	ei	A	<b>0.24</b>	0.054	0.10		mg/L	1	08/29/2019 15:40		
			Method: <b>EPA 420.4 Rev 1.0</b>				Analyst: <b>ABG</b>				
										Prep Date/Time: <b>08/29/2019 12:55</b>	
<b>Total Phenolics</b>											
Phenolics, Total Recoverable	ejj	A	<b>ND</b>	0.0060	0.010	U	mg/L	1	08/29/2019 16:34		
			Method: <b>SM 2540 D-1997</b>				Analyst: <b>KMT</b>				
										Prep Date/Time: <b>08/29/2019 11:13</b>	
<b>Total Suspended Solids</b>											
Total Suspended Solids	ejj	A	<b>1.5</b>	1.0	1.0		mg/L	1	08/29/2019 12:45		

## Analytical Results

Date: *Thursday, August 29, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1859-04
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/28/2019 6:11
<b>Client Sample ID:</b>	001-Grab	<b>Received:</b>	08/29/2019 10:25
<b>Sample Description:</b>	001		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: EPA 1664B				Analyst: KMT			
Oil & Grease (HEM) by SPE										
Oil & Grease (HEM)	ejj	A	ND	1.4	5.0	U	mg/L	1	08/29/2019 14:30	

## Analytical Results

**Date:** *Thursday, August 29, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1859-05
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/29/2019 6:29
<b>Client Sample ID:</b>	Mixed Liquor-Grab	<b>Received:</b>	08/29/2019 10:25
<b>Sample Description:</b>	Mixed Liquor		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: <b>SM 2540 F-1997</b>				Analyst: <b>DAT</b>			
Prep Date/Time: <b>08/29/2019 10:58</b>										
<b>Settleable Solids</b>										
Settleable Solids	i	A	<b>240</b>	1.0	1.0		ml/L	1	08/29/2019 10:58	
			Method: <b>SM 2540 D-1997</b>				Analyst: <b>KMT</b>			
Prep Date/Time: <b>08/29/2019 11:13</b>										
<b>Total Suspended Solids</b>										
Total Suspended Solids	ejj	A	<b>2300</b>	1.0	1.0		mg/L	1	08/29/2019 12:45	

## Analytical Results

Date: *Thursday, August 29, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1859-06
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/29/2019 6:25
<b>Client Sample ID:</b>	J-Box-Grab	<b>Received:</b>	08/29/2019 10:25
<b>Sample Description:</b>	J-Box		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed		
			Method: <b>SM 2540 D-1997</b>				Analyst: <b>KMT</b>				
										Prep Date/Time: <b>08/29/2019 11:13</b>	
<b>Total Suspended Solids</b>											
Total Suspended Solids	ejj	A	<b>10</b>	1.0	1.0		mg/L	1	08/29/2019 12:45		

## Analytical Results

**Date:** *Thursday, August 29, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1859-10
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/29/2019 0:00
<b>Client Sample ID:</b>	CM1-Grab	<b>Received:</b>	08/29/2019 10:25
<b>Sample Description:</b>	CM1		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: <b>SM 2540 D-1997</b>				Analyst: <b>KMT</b>			
<b>Total Suspended Solids</b>										
Prep Date/Time: <b>08/29/2019 11:13</b>										
Total Suspended Solids	ejj	A	<b>11</b>	1.0	1.0		mg/L	1	08/29/2019 12:45	

## Analytical Results

Date: *Thursday, August 29, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1859-11
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/29/2019 0:00
<b>Client Sample ID:</b>	CM2-Grab	<b>Received:</b>	08/29/2019 10:25
<b>Sample Description:</b>	CM2		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed		
			Method: <b>SM 2540 D-1997</b>				Analyst: <b>KMT</b>				
										Prep Date/Time: <b>08/29/2019 11:13</b>	
<b>Total Suspended Solids</b>											
Total Suspended Solids	ejj	A	<b>10</b>	1.0	1.0		mg/L	1	08/29/2019 12:45		

## Analytical Results

Date: *Thursday, August 29, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1859-12
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/29/2019 0:00
<b>Client Sample ID:</b>	CM6 Grab	<b>Received:</b>	08/29/2019 10:25
<b>Sample Description:</b>	CM6		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed		
			Method: <b>SM 2540 D-1997</b>				Analyst: <b>KMT</b>				
										Prep Date/Time: <b>08/29/2019 11:13</b>	
<b>Total Suspended Solids</b>											
Total Suspended Solids	ejj	A	20	1.0	1.0		mg/L	1	08/29/2019 12:45		

## Analytical Results

Date: *Thursday, August 29, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1859-13
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/29/2019 0:00
<b>Client Sample ID:</b>	HM2-Grab	<b>Received:</b>	08/29/2019 10:25
<b>Sample Description:</b>	HM2		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method: <b>SM 2540 D-1997</b>				Analyst: <b>KMT</b>			
			Prep Date/Time: <b>08/29/2019 11:13</b>							
<b>Total Suspended Solids</b>										
Total Suspended Solids	ejj	A	<b>14</b>	1.0	1.0		mg/L	1	08/29/2019 12:45	

## Analytical Results

**Date:** *Thursday, August 29, 2019*

<b>Client:</b>	Arcelor Mittal USA, Inc.	<b>Work Order/ID:</b>	19H1859-14
<b>Client Project:</b>	Daily	<b>Sampled:</b>	08/29/2019 0:00
<b>Client Sample ID:</b>	HM3-Grab	<b>Received:</b>	08/29/2019 10:25
<b>Sample Description:</b>	HM3		
<b>Matrix:</b>	Aqueous		

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: <b>SM 2540 D-1997</b>				Analyst: <b>KMT</b>		
<b>Total Suspended Solids</b>									
Prep Date/Time: <b>08/29/2019 11:13</b>									
Total Suspended Solids	ejj	A	<b>10</b>	1.0	1.0		mg/L	1	08/29/2019 12:45

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**ANALYTE TYPES: (AT)**

A, B = Target Analyte

I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

**Partial**  
**8/29/2019**

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**QC SAMPLE IDENTIFICATIONS**

BLK = Method Blank

DUP = Method Duplicate

BS = Method Blank Spike

MS = Matrix Spike

ICB = Initial Calibration Blank

CCB = Continuing Calibration Blank

CRL = Client Required Reporting Limit

PDS = Post Digestion Spike

QCS = Quality Control Standard

ICSA = Interference Check Standard "A"

ICSAB = Interference Check Standard "AB"

BSD = Method Blank Spike Duplicate

MSD = Matrix Spike Duplicate

ICV = Initial Calibration Verification

CCV = Continuing Calibration Verification

OPR = Ongoing Precision and Recovery Standard

SD = Serial Dilution

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**CERTIFICATIONS (Certs)**

*Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.*

d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)

i Kansas Dept Health &amp; Env. NELAP (#E-10397)

j Kentucky Wastewater Laboratory Certification Program (#108202)

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**FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)****MDL:** Minimum Detection Limit**RL:** Reporting Limit**RPD:** Relative Percent Difference**U:** The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has been adjusted for any dilution or concentration of the sample.

**Cooler Receipt Log**

Cooler ID: Default Cooler



**Partial**  
**8/29/2019**

**Comments**

Metals sample preserved at lab

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**Cooler Inspection Checklist**

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes

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# Chain of Custody

ArcelorMittal Burns Harbor/Microbac Labs

Thursday

Lab Work No: 19H1859

\* Date Obtained: 8-29-19

\*\* Sample Date: 8-28-19

Location	Time	Sampler	Type	Preserved	Cooled	Containers			Parameters	Comments
						Type	Qty	Vol. (ml)		
011 **	05:50	CP	Comp	No	Yes	Glass	1	4000		01
			Grab	No	No	Plastic	1	500	pH	02
001 **	06:11		Comp	No	Yes	Glass	1	4000		03
			Grab	No	No	Plastic	1	125	pH	04
Mixed Liquor *	06:29		Grab	No	No	Plastic	1	2000	TSS, Settling	05
DIW-131 *			Grab	No	No	Plastic	1	125	pH	X
J-Box *	06:25		Grab	No	No	Plastic	1	1000	TSS, pH	06
RSB FT Overflow *	07:17		Grab	No	No	Plastic	1	125	pH	07
999 *	07:05		Grab	No	No	Plastic	1	500	pH	08
002 **	07:26		Grab	No	No	Plastic	1	125	pH	09
SWTP *	11:4	***	Grab	No	No	Plastic	25	1000	TSS	10-14

\*\*\* WPL is for previous sample date

\*\*\*\* Sample collected by Water Process personnel

No CM 3+HM1

3.5  
- 0.3  
-----  
3.2

Relinquished by: CP

Date: 8-29-19

Time: 07:40

Received by: R. O. O.

Date: 8/29/19

Time: 0800

Env 4x Rev. 8 07/01/16 (TEK)

19H1859 Carey Gadzala  
ArcelorMittal - Burns Harbor, IN  
Daily  
08/29/2019





**Microbac Laboratories, Inc. - Chicagoland Division**  
**Residual Chlorine - METHOD SM 4500-Cl I-2000**  
**Arcelor Mittal /Burns Harbor NPDES**

Meter ID: BH Meter Residual Chlorine Standard: A 9074  
 Iodine Reagent: \_\_\_\_\_ Acid Reagent: \_\_\_\_\_

Sample ID	Residual Chlorine	Analyst	Date/Time of Analysis
Cal Std 1	0.02 mg/L	BAO	8/27/19 0800
Cal Std 2	0.05 mg/L		
Cal Std 3	0.1 mg/L		
Slope Blank	0.00		
LCS 0.02 mg/L	0.02		
011	0.00		
011 DUP	0.00		
001	0.00		
002	0.00		
003	0.00		
DUP 003	0.00		

Meter ID: BH Meter Residual Chlorine Standard: A 9074  
 Iodine Reagent: \_\_\_\_\_ Acid Reagent: \_\_\_\_\_

Sample ID	Residual Chlorine	Analyst	Date/Time of Analysis
Cal Std 1	0.02 mg/L	BAO	8/28/19 0800
Cal Std 2	0.05 mg/L		
Cal Std 3	0.1 mg/L		
Slope Blank	0.00		
LCS 0.02 mg/L	0.10		
011	0.00		
011 DUP	0.00		
001	0.00		
002	0.00		
003	0.00		
DUP 001	0.00		

Meter ID: BH Meter Residual Chlorine Standard: A 9074  
 Iodine Reagent: \_\_\_\_\_ Acid Reagent: \_\_\_\_\_

Sample ID	Residual Chlorine	Analyst	Date/Time of Analysis
Cal Std 1	0.02 mg/L	BAO	8/29/19 0800
Cal Std 2	0.05 mg/L		
Cal Std 3	0.1 mg/L		
Slope Blank	0.00		
LCS 0.02 mg/L	0.07		
011	0.00		
011 DUP	0.00		
001	0.00		
002	0.00		
003	0.00		
DUP 002	0.00		



307259

# Daily work authorization form for all visiting workers

For each job, and before starting work at the job site, a contractor representative must meet face to face with the ArcelorMittal representative responsible for the work and discuss the work to be performed and any specific safety requirements.

## Section 1

The named contractor or work crew is cleared to perform the job described herein:  
Company name Microbac Cabs ArcelorMittal representative Werner Howard  
Company contact/phone no Cary Gadzala 769-8378 ArcelorMittal representative department E-1 Date 8/29/19  
Location and project/job description Enviro Bldg/ Water Samples ArcelorMittal representative phone number 4863 Cell \_\_\_\_\_  
Clinic pickup point 46

## Section 2

HIRAC-Lite	Yes	N/A	No	10) Could someone be caught in or between anything?	Yes	N/A	No
1) Are emergency evacuation areas identified and known?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2) Is there a current and valid isolation (LOTO) procedure?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11) Could someone get hurt as a result of a fall from height?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3) Will everyone apply a personal safety lock?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12) Can something fall and/or strike me or someone else?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4) Are there adjacent work crews exposed (including ArcelorMittal employees)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13) Is everyone properly trained for this job?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5) Are there potential hazards or high risk job steps?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14) Are flags and derrails in place if needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6) Do we have the correct tools for the job?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15) Can we slip or trip on anything (including travel to and from the job)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7) Is additional PPE required?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	16) Have all affected people been notified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8) Is there a potential for exposure (chemical, radiation, laser, temperature)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17) Can we strain or overexert ourselves?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
9) Is someone working on or near energized electrical equipment (motor control rooms, overhead power lines, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment, etc.)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

## Other Hazards and Considerations for Discussion

	Yes	N/A	No	24) Housekeeping	Yes	N/A	No	29) Scaffold work	Yes	N/A	No	33) Asbestos	Yes	N/A	No
19) Pneumatic air tools & lines	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	25) Production hazards	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	30) Explosives	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	34) Noise	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
20) Vehicle / mob equip traffic	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	26) Material handling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	31) Barricades	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	35) Lasers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21) Gas hazards-CO, CO2, etc.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	27) Crane and rigging	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	32) Radiation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	36) Sewers	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
22) Hot process, metal, temp.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	28) Overhead work	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>								
23) Pressurized / steam pipe	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>												

## Section 3

Visiting worker name (print) B. Otto Badge # 164042  
Hazard # \_\_\_\_\_ Controls \_\_\_\_\_ Responsible Person \_\_\_\_\_  
Hierarchy of Controls 1. Elimination 2. Substitution 3. Engineering 4. Administrative 5. PPE  
Hazard # \_\_\_\_\_ Responsible Person B. Otto Hazard # \_\_\_\_\_ Controls \_\_\_\_\_ Responsible Person \_\_\_\_\_

Permits	Yes	N/A	No
37) Confined space	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
38) Energized electrical work	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
39) Excavation / drilling	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
40) Hot work	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
41) Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

My crew and I are familiar with the safety hazards/considerations for this job. We are prepared to perform the work in a safe "workmanship" like manner. I have reviewed these considerations with the ArcelorMittal representative named below.  
Contractor or crew leader B. Otto ArcelorMittal representative [Signature] Replacement rep/phone \_\_\_\_\_  
(Ensure form is fully completed prior to signing) Original to contractor, (1) copy to ArcelorMittal representative Controlled by Maintenance Administration Dept. ArcelorMittal Harbor 2016-04-BH-DailyWorkAuthorization

